Docket No.: 0032-0291PUS1

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Tomoaki TAKAKURA et al.

Application No.: 10/584,447

Confirmation No.: 4157

Filed: June 22, 2006

Art Unit: 1615

For: PROCESS FOR PRODUCING PROTEIN-

POLYMER COMPLEX

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (SUBMISSION AFTER FILING OF AN APPLICATION BUT BEFORE FINAL REJECTION OR NOTICE OF ALLOWANCE OR CONCURRENTLY WITH A RULE 1.114 RCE APPLICATION)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on the PTO-SB08(s), attached hereto.

II. COPIES

a. Copies of cited U.S. patents and patent application publications are not included. Copies of foreign patent documents and non-patent literature are included.

	b.	Some or all of the documents listed on the PTO-SB08 are not enclosed because
they w	ere cite	d in the International Search Report and copies should already be in the PTO file.
If copi	es are n	eeded, please contact the undersigned.
	c.	REFERENCES PREVIOUSLY CITED OR SUBMITTED - Pursuant to 37 C.F.R.
§1.98(d), cons	sideration of information listed on the PTO-SB08 form(s) is requested since any
patents	s, publi	cations, or other information which are listed on the PTO-SB08 form(s) but for
which	copies	are not enclosed herewith, were previously cited by or submitted to the PTO in one
of the	follow	ing applications which has been relied upon for an earlier filing date under 35
U.S.C.	§ 120:	
III.	CONC	SISE EXPLANATION OF THE RELEVANCE
	(check	at least one box)
	a.	DOCUMENTS IN THE ENGLISH LANGUAGE - The patents, publications, or other
inform	ation li	sted on the attached PTO SB08 are in the English language and therefore, do not
require	e a state	ment of relevancy.
NZI	1	DOCUMENTO NOT IN THE ENGLISH LANGUAGE. A consist evaluation of the
	b.	DOCUMENTS NOT IN THE ENGLISH LANGUAGE - A concise explanation of the
		all patents, publications, or other information listed that is not in the English
•	_	follows: English language Abstracts are provided for JP-10-191972-A and JP-
11-194	2084-A.	
П	c.	ENGLISH LANGUAGE SEARCH REPORT - An English language version of the search
report	or action	on that indicates the degree of relevance found by the foreign office is attached,
		ring the requirement for a concise explanation. See MPEP 609(III)(A)(3).
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	d.	OTHER - The following additional information is provided for the Examiner's
consid	eration.	
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IV.	<u>FEES</u>	(check one box)

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of a ne	a. w pater	This Information Disclosure Statement is being filed concurrently with the filing at application; therefore, no fee is required.
a cont	b. inuation	This Information Disclosure Statement is being filed concurrent with the filing of -in-part, continuation, or divisional patent application; therefore, no fee is required.
		This Information Disclosure Statement is being filed within three months of the a national application (37 C.F.R. § 1.97(b)(1)). No fee or statement is required as not to be used with RCE's.)
		This Information Disclosure Statement is being filed within three months of the of the national stage as set forth in § 1.491 in an international application (37 C.F.R No fee or statement is required.
	e. Request ent is re	This Information Disclosure Statement is being filed concurrently with the filing for Continued Examination under § 1.114 (37 C.F.R. § 1.97(b)(4)). No fee or
Staten.	ciii is ic	quired.
⊠ first A	f. Action o	This Information Disclosure Statement is being filed before the mailing date of an the merits (37 C.F.R. § 1.97(b)(3)). No fee or statement is required. In the
event	that a fi	rst Office Action on the merits has been issued, please consider this IDS under 37
	•	(c) and see the statement under 37 C.F.R. § 1.97(e) below, or, if no statement has large our deposit account for the fee as required by 37 C.F.R. § 1.17(p).
		This Information Disclosure Statement is being filed before the mailing date of a Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c)(1)) or before the mailing ce of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c)(2)).
	or	No statement; therefore, a fee as required by 37 C.F.R. § 1.17(p) is attached.
	⊠ See	e the statement above. No fee is required.
		3 DRN/kpc

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V. STATEMENT UNDER 37 C.F.R. § 1.97(e) (check only one box) The undersigned hereby states that: Each item of information contained in the IDS was first cited in any communication from a foreign Patent Office in a counterpart foreign application not more than 30 days prior to the filing of this IDS; or h. Each item of information contained in the IDS was first cited in any communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or No item of information contained in the IDS was cited in a communication from a c. foreign Patent Office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the IDS. Some of the items of information were cited in a communication from a foreign d. Patent Office. As to this information, the undersigned states that each item of information contained in the IDS was first cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby states that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application and, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement. VI. PAYMENT OF FEES (check one box) The required fee is listed on the attached Fee Transmittal.

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No fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 02-2448.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to our Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Dated: June 27, 2007

Respectfully submitted,

Mark J. Nwell

Registration No.: 36,623

BIRCH, STEWART, KOLASCH & BIRCH, LLP

8110 Gatehouse Road

Suite 100 East P.O. Box 747

Falls Church, Virginia 22040-0747

(858) 792-8855

Attorney for Applicant

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\boxtimes	PTO-SB08
\boxtimes	Documents
	Foreign Search Report
	Fee
	Other:

Sub	estitute for form 1449/PTO		,	Complete if Known		
				Application Number	10/584,447	
11	VFORMATION	l Di	SCLOSURE	Filing Date	June 22, 2006	
S	TATEMENT E	3Y /	APPLICANT	First Named Inventor	Tomoaki Takakura et al.	
				Art Unit	N/A	
	(Use as many sh	eets a	s necessary)	Examiner Name	Not Yet Assigned	
Sheet	1	of	2	Attorney Docket Number	0032—0291PUS1	

			U.S. PA	TENT DOCUMENTS	
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials*	No.1	Number-Kind Code ² (if known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
	AA*	US-4,179,337	12-18-1979	Davis et al.	
	AB*	US-4,732,863	03-22-1988	Tomasi et al.	
	AC*	US-5,605,976	02-25-1997	Martinez et al.	
	AD*	US-5,690,929	11-25-1997	Lishko et al.	
	AE*	US-5,716,797	02-10-1998	Danno et al.	
	AF*	US-5,834,273	11-10-1998	Futatsugi et al.	
	AG*	US-5,861,154	01-19-1999	Soda et al.	
	AH*	US-5,985,540	11-16-1999	Tan et al.	
	Al*	US-6,461,851	10-08-2002	Tan	
	AJ*	US-6,395,507	05-28-2002	Bongs et al.	
	AK*	US-6,475,767	11-05-2002	Akita et al.	
	AL*	US-2004/0110164	06-10-2004	Inagaki et al.	

		FOREI	GN PATENT	DOCUMENTS		
Examiner	Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines,	
Initials*	No.	Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages Or Relevant Figures Appear	ް
	ВА	JP-10-191972-A	07-28-1998	Higo Yukiko et al.		
	BB	JP-11-192084-A	07-21-1999	Yoshino Manabu et al.		
	вс	WO-94/11535-A1	05-26-1994	Valeryi Lishiko		
	BD	WO-96/40284-A1	12-19-1996	Yuying Tan et al.		
	BE	WO-00/44808-A1	08-03-2000	Jeffrey A. Hubbell et al.		

"EXAMINER: initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.usofo.gov or MPEP 301.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Nind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

[5]	
(Date)	
Signature Considered	

Sub	estitute for form 1449/PTO			Complete if Known		
				Application Number	10/584,447	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	June 22, 2006	
				First Named Inventor	Tomoaki Takakura et al.	
				Art Unit	N/A	
	(Use as many she	eets as	necessary)	Examiner Name	Not Yet Assigned	
Sheet	2	of	2	Attorney Docket Number	0032-0291PUS1	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T^2
	CA	Bullock, John et al., (1997) Comparison of REsults of Various Methods Used to Determine the Extent of Modification of Methoxy Polyethylene Glycol 5000-Modified Bovine Cupri-Zinc Superoxide Dismutase, Analytical Biochemistry, Vol. 254, pps. 254-262	
	СВ	Eliman, George L., (1959) Tissue Sulfhydryl Groups, Archives of Biochemistry and Biophysics, Vol. 82, pps 70-77	
	cc	Inoue, Hiroyuki et al., (1995) Structural Analysis of the L-Methionine y-Lyase Gene From Pseudomonas putida, J.Biochem., Vol 117, pps. 1120-1125	mann
	CD	Jones, Barry N., et al., (1983) o-Phthaldialdehyde Precolumn Derivatization and Reversed- Phase High-Performance Liquid Chromatography of Polypeptide Hydrolysates and Physiological Fluids, Journal of Chromatography, Vol. 266, pps. 471-482	
	CE	Karr, Laurel J., et al., PEG-Antibody in Cell Extraction, Use of Poly(ethylene Glycol)-Modified Antibody in Cell Extraction, Methods in Enzymology, Vol. 228, pps. 377-390	
	CF	Kreis, Willi et al., (August 1973), Biological Effects of Enzymatic Deprivation of L-Methionine in Cell Culture and an Experimental Tumor, Cancer Research, Vol. 33, pps. 1862-1865	
	CG	Kreis, Willi et al., (August 1973) Isolation and Purification of L-Methionine-α-deamino-γ-mercaptomethane-Lyase (L-Methioninase) fromClostridium sporogenes, Cancer Research, Vol. 33, pps.1866-1869	
	СН	Nakayama, Toru et al., (1988) Chemical Modification of Cysteine Residues of L-Methionine γ- Lyase, Agric. Biol. Chem., Vol. 52, pps. 177-183	***********
	CI	Nakayama, Toru et al., (1988), Specific Labeling of the Essential Cysteine Residue of L-Methionine γ-Lyase with a Cofactor Analogue N-(Bromoacetyl)pyridoxamine Phosphate, Biochemistry, Vol. 27, pps. 1587-1591	
	Cl	Tan, Yuying et al., (1998) Polyethylene Glycol Conjugation of Recombinant Methioninase for Cancer Therapy, Protein Expression and Purification, Vol. 12, pps. 45-52	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner	Date	
Signature	Considered	

^{&#}x27;Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.